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DATE MAILED: 06/26/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

23117 7590 0626/2009 NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

EXAMINER						
BERGIN, JAMES S						
ART UNIT	PAPER NUMBER					
3641	•					

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 07/54-142
 06/13/1990
 NOEL J. PARRATT
 124-179
 3729

 TILE OF INVENTION: SABOT
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This for appropriate. All further condicated unless corrected maintenance fee notification	orm should be used for orrespondence including below or directed others.	or tran ig the ierwise	smitting the ISSU Patent, advance of in Block 1, by (a					hould be completed where correspondence address as trate "FEE ADDRESS" for
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								(Depositor's name)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR	ATTO	ORNEY DOCKET NO.	CONFIRMATION NO.
07/544,142	06/13/1990			NOEL J. PARRATT		124-179		3729
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nonprovisional	NO		\$1510	\$0	\$0		\$1510	09/28/2009
EXAMIN	JER		ART UNIT	CLASS-SUBCLASS	7			
BERGIN, JA	BERGIN, JAMES S		3641	102-520000	_			
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☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			ation form	C2 the came of a single furn thiving as a member a completed attorney of spent and the names of up to C2 registered patent attorneys or agents. If no name is listed, no name will be printed in the came will be printed attorneys or agents. If no name is 3				
3. ASSIGNEE NAME AN	D RESIDENCE DATA	тов	E PRINTED ON	THE PATENT (print or	type)			
PLEASE NOTE: Unles	ss an assignee is identi	fied be	elow, no assignee	data will appear on the	patent. If an assig	nee is i	dentified below, the d	ocument has been filed for
(A) NAME OF ASSIG		action	of this form is 140	(B) RESIDENCE: (CI				
Please check the appropriate	te assignee category or	catego	ories (will not be pr	inted on the patent):	□ Individual □ (Corporal	tion or other private gro	oup entity 🚨 Government
4a. The following fee(s) an	e submitted:		41	D. Payment of Fee(s): (P		ny pre	viously paid issue fee	shown above)
				A check is enclosed		8 is att	ached	
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Statu	s (from status indicated	i above	2)	_				.,
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NOTE: The Issue Fee and interest as shown by the re-	Publication Fee (if requestress of the United Sta	iired) v tes Pat	will not be accepte ent and Trademark	d from anyone other that Office.	n the applicant; a re	gistered	attorney or agent; or th	ne assignee or other party in
Authorized Signature _					Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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NIXON & VAN	DERHYE, PC	BERGIN, JAMES S			
901 NORTH GLEBE ROAD, 11TH FLOOR			ART UNIT PAPER NUMBER		
ARLINGTON, VA	X 22203	3641			

DATE MAILED: 06/26/2009

Determination of Patent Term Extension or Adjustment under 35 U.S.C. 154 (b)

(application filed prior to June 8, 1995)

This patent application was filed prior to June 8, 1995, thus no Patent Term Extension or Adjustment applies.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 07/544.142 PARRATT ET AL. Notice of Allowability Examiner Art Unit JAMES S BERGIN 3641 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to RCE filed 3/9/2009. The allowed claim(s) is/are 1-19. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☒ None of the: 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Notice of Draftperson's Patent Drawing Review (PTO-948) Paper No./Mail Date

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

/James S. Bergin/ Primary Examiner, Art Unit 3641

Information Disclosure Statements (PTO/SB/08).

☐ Examiner's Comment Regarding Requirement for Deposit

Paper No./Mail Date 3/9/2009

of Biological Material

7. T Examiner's Amendment/Comment

9. ☐ Other .

8. X Examiner's Statement of Reasons for Allowance

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose a sabot made from an anisotropic material, the sabot comprising: individual radial planes that radiate outwardly from the central longitudinal axis, within individual radial planes, the sabot's maximum compressive strength is oriented in a first principal material direction that radiates outwardly from the central longitudinal axis towards the rear end of the sabot, the sabot's minimum value of compressive strength is oriented in a second principal material direction in the individual radial planes of the sabot.

- This statement is not intended to necessarily state all the reasons for allowance or all the details why the claims are allowed and has not been written to specifically or impliedly state that all the reasons for allowance are set forth (MPEP 1302.14).
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. BERGIN whose telephone number is (571)272-6872. The examiner can normally be reached on Monday Wednesday and Friday, 8.30 5.30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax

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Art Unit: 3641

phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James S. Bergin/ Primary Examiner, Art Unit 3641